

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. *(Currently Amended)* An information processing apparatus having a communication apparatus which is configured to perform ~~performs~~ network connection via a wireless relay apparatus, the information processing apparatus comprising:

an information acquisition unit which is adapted to acquire ~~acquires~~ information of discovered wireless relay apparatuses by discovering the wireless relay apparatuses communicable with the communication apparatus, wherein the information acquisition unit discovers the communicable wireless relay apparatuses by receiving beacons from wireless relay apparatuses present around the information processing apparatus, and acquires a network name, a communication speed, a security level, a communication channel, and a radio field strength of each wireless relay apparatus as the information of each wireless relay apparatus;

a profile setting unit which is configured to set ~~[[sets]]~~ communication profiles for the wireless relay apparatuses discovered by the information acquisition unit;

a priority condition setting unit which is configured to set ~~[[sets]]~~ a priority condition for determining priorities of the communication profiles to be used by the communication apparatus, wherein the priority condition setting unit sets the priority condition based on the communication speed, the security level, the communication channel, and the radio field strength; [[and]]

an order determination unit which is configured to determine priorities for the communication profiles set by the profile setting unit on the basis of the priority condition set by the priority condition setting unit; and

a profile determination unit which ~~determines~~ is configured to determine a communication profile to be used by the communication apparatus ~~on the basis of the information of the wireless relay apparatuses that are acquired by the information acquisition unit, the communication profiles set by the profile setting unit, and the priority condition set by~~

~~the priority condition setting unit~~ based on the priorities determined by the order determination unit.

2. (Cancelled).

3. (Currently Amended) [[An]] The apparatus according to claim [[2]] 1, further comprising a storage device which stores is adapted to store information acquired by the information acquisition unit.

4.-5. (Cancelled).

6. (Currently Amended) [[An]] The apparatus according to claim [[4]] 1, further comprising:

a connection determination unit which ~~determines~~ is configured to determine whether to automatically connect the communication apparatus to the wireless relay apparatus in which the communication profile determined by the profile determination unit is set; and

a connection processing unit which, when the connection determination unit determines to automatically connect the communication apparatus to the wireless relay apparatus, ~~performs~~ is configured to perform a connection process between the communication apparatus and the wireless relay apparatus in which the communication profile is set, by using the communication profile determined by the profile determination unit.

7. (Currently Amended) [[An]] The apparatus according to claim 6, further comprising:

a change recognition unit which ~~recognizes~~ is configured to recognize a change in communication environment between the wireless relay apparatus and the communication apparatus on the basis of a communication content between the wireless relay apparatus and the communication apparatus which have undergone the connection process by the connection processing unit; and

a profile change unit which ~~changes~~ is configured to change a currently set communication profile to another communication profile in accordance with a content when the change recognition unit recognizes the change in the communication environment.

8. *(Currently Amended)* ~~[[An]]~~ The apparatus according to claim 6, further comprising a profile change unit which ~~changes~~ is configured to change a currently set communication profile to another communication profile when a fault occurs in the communication apparatus.

9. *(Currently Amended)* A method of connecting a network via a wireless relay apparatus by using a communication apparatus, comprising:

discovering wireless relay apparatuses communicable with the communication apparatus by receiving beacons from the wireless relay apparatuses to acquire information of the discovered wireless relay apparatuses, the information including a network name, a communication speed, a security level, a communication channel, and a radio field strength of each wireless relay apparatus;

setting communication profiles for the discovered wireless relay apparatuses;

setting a priority condition for determining priorities of the communication profiles to be used by the communication apparatus based on the communication speed, the security level, the communication channel, and the radio field strength; ~~[[and]]~~

determining priorities for the set communication profiles based on the set priority condition; and

~~determining a communication profile to be used by the communication apparatus on the basis of the acquired information of the wireless relay apparatuses, the set communication profiles, and the set priority condition~~ in accordance with the determined priorities.

10. *(Cancelled).*

11. *(Currently Amended)* ~~[[A]]~~ The method according to claim ~~[[10]]~~ 9, further comprising storing the acquired information in a storage device.

12.-13. (*Cancelled*) .

14. (*Currently Amended*) [[A]] The method according to claim [[12]] 9, further comprising:

determining whether to automatically connect the communication apparatus to the wireless relay apparatus in which the determined communication profile is set; and

when the communication apparatus is determined to be automatically connected to the wireless relay apparatus, performing a connection process between the communication apparatus and the wireless relay apparatus in which the communication profile is set, by using the determined communication profile.

15. (*Currently Amended*) [[A]] The method according to claim 14, further comprising:

recognizing a change in communication environment between the wireless relay apparatus and the communication apparatus on the basis of a communication content between the wireless relay apparatus and the communication apparatus which have undergone the connection process; and

changing a currently set communication profile to another communication profile in accordance with a content when the change in the communication environment is recognized.

16. (*Currently Amended*) [[A]] The method according to claim 14, further comprising changing a currently set communication profile to another communication profile when a fault occurs in the communication apparatus.